

NM Air Dispersion Modeling Checklist

This checklist is provided for your convenience as a way to help assure that the modeling portion of the permit application is complete and acceptable. No checklist could cover all possible scenarios. Please consult the Modeling Guidelines and/or contact the Air Quality Bureau (the Bureau) if you have any questions.

Do not return this form with the modeling package. All information should be contained in the modeling report.

Modeling protocol requirements.

Modeling protocol was e-mailed to the Bureau.

The Bureau approved the modeling protocol in e-mail or writing.

Modeling requirements

The modeling inputs match values on the Permit Application Form.

All terrain elevations were determined using the same type of data.

Neighboring sources were included in the analysis.

Background concentrations were included for particulates.

Building downwash was analyzed

Partial operating loads were analyzed

Class I areas within 50 km of the facility were analyzed.

Impacts have been determined for any toxic air pollutants included in 20 NMAC 2.72.

If emissions offsets are necessary, modeling has been included to show air quality benefit.

PSD increment analysis has been performed.

Contents of modeling report.

The modeling report should contain a complete description of the modeling that was performed. The following items are essential, but sometimes overlooked when submitting a report. Please consult the report outline in the modeling Guidelines for a more complete description of report details.

Facility information is provided: Name of Applicant Name of Facility Permit numbers

Contact information for the Bureau to use in case of questions: Name e-mail Phone Number

Flare parameter calculations are included, if applicable.

A topographic map showing: elevation contours source location location(s) of maximum impacts

A plot plan showing UTM coordinates for:

Buildings and tanks sources volume sources property boundaries

areas of public access restrictions (by fence or wall) roads

The following materials must be submitted to the Bureau:

1. A bound modeling report.

2. A computer disk (CD or floppy disc) with:

input files output files building downwash files

meteorological data files, if not Bureau-supplied

Electronic copy of modeling report